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18. The apparatus of Claim 16 wherein the light source generates pulses of light.

19. The apparatus of Claim 16 wherein the light source generates pulses of polychromatic light.

20. The apparatus of Claim 16 wherein at least a portion of the sealed contact lens container is transmissive to light having wavelengths at least between about 180 and about 300 nm.

21. The apparatus of Claim 16 wherein the light has an intensity of at least about 0.01 J/cm^2 .

22. The apparatus of Claim 16 wherein at least about 1% of the light has a wavelength of about 260 nm.

23. A method of deactivating microorganisms comprising:

illuminating a sealed contact lens container with light, wherein at least a portion of the sealed contact lens container is transmissive to at least a portion of the light, the sealed contact lens container containing a preservative fluid and a contact lens; and deactivating microorganisms on the contact lens within the sealed contact lens container.

24. The method of Claim 23 further comprising deactivating microorganisms within the preservative fluid within the sealed contact lens container.

25. The method of Claim 23 wherein the illuminating step comprises illuminating the sealed contact lens container with one or more pulses of light.